

NBR - Black (NBR)

NBR is a black Nitrile Butadiene Rubber commonly referred to as NBR, Nitrile or BUNA. Good physical characteristics and chemical resistance to the most common hydraulic fluids makes an excellent sealing material. NBR materials are one of the most commonly used elastomers in sealing applications.

PHYSICAL PROPERTIES

Specific gravity	DIN 53479	g/cm ³	1.32
Hardness at 20°C	DIN 53505	Shore A	85
Tensile strength	DIN 53504	N/mm ²	>17
Elongation at break	DIN 53504	%	>155
Modulus 100%	DIN 53504	N/mm ²	10.2
Compression set 22h/70°C	DIN 53517A	%	7
Compression set 22h/100°C	DIN 53485	%	9
Min. Service temperature		°C	-25
Max. Service temperature		°C	100

MAIN APPLICATION

Seals (standard and special)
Wipers
Rotary seals
O - Rings, Flange seals and gaskets

CHEMICAL RESISTANCE

Water up to 70°	R
Water up to 90°	S
HFA	R
HFB	R
HFC	R
HFD	U
Mineral Oils	R
Vegetable Oils	R
Fuels	R
Ozone	U
Air up to 100°	R
Air up to 150°	U
Air up to 200°	U

KEY TO CHEMICAL RESISTANCE

R = resistance
S = suitable
U = unsuitable

ANALYSIS AND EVALUATION

The mentioned properties are only valid for testpieces of the corresponding ISO, DIN and ASTM standards. They cannot be directly related to seals, gaskets and other sealing products and should be used only as a general guide.